

In the Claims:

1. (CURRENTLY AMENDED) A method for generating software for an open drive regulator, comprising the steps of:

- providing a plurality of object oriented functions, wherein each object oriented function comprises a standardized software interface;

- providing customer-specific object oriented functions having a standardized software interface;

- selecting at least one object oriented function from the plurality of object oriented functions and customer-specific object oriented functions;

- instantiating each selected object oriented function with either a default values or customized values depending on a selection by a user;

- compiling code for each of the selected object oriented function separately;

- linking-joining each of the selected object oriented function to generate the software for the open drive regulator from ~~the~~ compiled object oriented functions.

2. (CANCELED)

3. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein each object oriented function comprises parameters, alarms messages, initialization routines, and test scripts.

4. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein each object oriented function comprises a jump-in point for customer-specific upgrades.

5. (CANCELED)

6. (PREVIOUSLY PRESENTED) The method according to claim 2, wherein the customer specific object oriented function is provided through a communication bus by either an external or internal source.

7. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein the compiled object oriented functions are preprocessed and stored as library routines.

8. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein the software has a system configuration which is stored, and only a change relating to the relevant object oriented function can be carried out when a object oriented function is added or removed.

9. (ORIGINAL) The method according to claim 1, wherein data required for software generation are made available via an interface for connection to a data bus or a smart card.

10. – 11. (CANCELED)

12. (CURRENTLY AMENDED) A system for generating user specific software on the basis of object oriented functions comprising:

- a library comprising a plurality of object oriented functions, wherein each object oriented function comprises a standardized software interface;
- a selection tool for selecting at least one object oriented function ;
- at least one interface for providing user specific data and/or user specific object oriented functions;
- a compiler for compiling code for each of the selected object oriented function separately;

- ~~a linker for linking~~means for joining each of the selected object oriented function to generate the software for ~~the~~an open drive regulator from the compiled object oriented functions;

- a microcontroller for generating the user specific software wherein the microcontroller is the microcontroller for running the user specific software; and

- a program memory for storing the program to be executed by the microcontroller.

13. - 14. (CANCELED)

15. (PREVIOUSLY PRESENTED) The system according to claim 12, further comprising an object memory for storing the library.

16. (PREVIOUSLY PRESENTED) The system according to claim 12, further comprising a parameter memory for storing system specific parameters.

17. (PREVIOUSLY PRESENTED) The system according to claim 12, further comprising a configuration memory for storing configuration data.

18. (CANCELED)